

Curriculum vitae

Sigg, Stephan; male; Senior member, IEEE

September 9, 2021

Date of birth January, 25th 1978 in Hanover, Germany
Citizenship German
Civil status Married, two daughters (10 and 14 years)
Residence Kruununkuja 4 D7, 02180 Espoo, Finland
Web http://www.ambientintelligence.aalto.fi/team_stephan.php

Current position

09.2015 – **Associate Professor** (tenured 11.2019), Aalto University, School of Electrical Engineering, Department of Communications and Networking

Education and degrees completed

04.2017 **Habilitation** at TU Braunschweig, Germany; Thesis: Some aspects of physical prototyping in Pervasive Computing; Contact: Imma Braun (CEO, Deans office of the Carl-Friedrich-Gauß-Fakultät of TU Braunschweig); i.braun@tu-braunschweig.de; +49 531 391-2840
02.2010 **M.Sc. in the further education course** 'Hagener Masterstudiengang Management' at FernUniversität Hagen, Germany; Grade: 1.5; Thesis: Optimisation of a three stage cooling process.
02.2008 **PhD**, chair for communication technology of the University of Kassel, Germany; Grade: with distinction (summa cum laude, Dr. rer. nat.) Thesis: Development of a novel context prediction algorithm and analysis of context prediction schemes'.
08.2004 **Graduation as Dipl.-Inform. (MSc degree)** Grade: 1.3; thesis: 'Ein Vergleich verschiedener Varianten endlicher Quantenautomaten'.

Previous work experience and research visits

07.2019-08.2019 **Internat. Visiting Research Professor** at University of Science and Technology, Hefei, China;
03.2017-05.2017 **Research visit** at the National Institute of Informatics, Tokyo, Japan;
07.2015-08.2015 **Visiting researcher** at the University of Helsinki (Nodes group);
04.2014-08.2014 **Visiting researcher** at the University of Helsinki (Nodes group);
10.2013-09.2015 **Research associate**, chair for Computer Networks of the Georg-August University Goettingen;
07.2013-09.2013 **Academic guest** in the Wearable Computing Group of ETH Zurich; Switzerland
06.2013-09.2013 **DAAD researcher**, Institute for operating Systems and computer networks; TU Braunschweig
12.2012-03.2013 **Researcher**, National Institute of Informatics; Information Systems Architecture Science; Tokyo
09.2012-03.2013 **Part-time Lecturer** for Information Network Systems at Waseda University, Tokyo;
12.2010-11.2012 **Visiting Researcher** at the National Institute of Informatics, Tokyo;
10.2010-03.2011 **Visiting Professorship** at the Technische Universität Braunschweig;
04.2010-09.2010 **Postdoctoral associate** at the Karlsruhe Institute of Technology (KIT)
01.2008-03.2010 **Postdoctoral associate** at the Technische Universität Braunschweig
01.2005-12.2007 **PhD candidate** at the chair for communication technology of the University of Kassel

Teaching expertise

spring 2021	Lecturer	Machine Learning (BSc)	Aalto University	Finland
spring 2019/20	Lecturer	Basic Principles in Networking (BSc)	Aalto University	Finland
winter 2016-21	Lecturer	Machine Learning for Pervasive Systems (MSc)	Aalto University	Finland
summer 2015/14	Lecturer	Machine Learning and Pervasive Computing (MSc)	Goettingen University	Germany
summer 2015	Lecturer	Machine Learning and Pervasive Computing (MSc)	TU Braunschweig	Germany
winter 2013	Lecturer	Selected topics in Pervasive Computing (MSc)	Goettingen University	Germany
winter 2012	Lecturer	Information Network Systems (BSc)	Waseda University	Japan
summer 2011	Lecturer	Secure communication from noisy input (MSc)	TU Braunschweig	Germany
winter 2011	Lecturer	Operating Systems (BSc)	TU Braunschweig	Germany
winter 09/10/su10	Lecturer	Collaborative transmission in WSNs (MSc)	TU Braunschweig	Germany
winter 2008	Lecturer	Algorithms for context prediction (MSc)	TU Braunschweig	Germany

Research funding and grants

01.2022-12.2025	EU MSCA-COFUND-2020	404 961€
12.2019-05.2020	Bayer: Project collaboration on FAIR IoT protocols for healthcare	50 000€
09.2019-08.2022	H2020 MSCA-ITN: Windmill – Integrating Wireless Comm. Engin. & Machine Learn.	200 000€
04.2019-12.2021	Nokia: Project collaboration (shared with Risto Wichman)	272 500€
01.2019-02.2022	EU CHIST-ERA: Radio Sense – Wireless Big Data Augmented Smart Industry	196 492€
09.2018-08.2021	Academy of Finland ICT 2023 programme: Energy efficient ICT systems of the future	175 000€
01.2018-12.2018	Aalto KAIST Seed funding;	15 000€
01.2018-12.2018	EIT digital HII-Active (EIT);	50 000€
01.2017-12.2018	Mobility from Finland (Academy of Finland);	6 000€
01.2017-12.2017	EIT digital HII-Active (EIT);	50 000€
04.2014	Starting grant, Georg-August University Goettingen;	5 000€
06.2013-12.2013	Research grant of the German Academic Exchange Service (DAAD);	7 200€
12.2011-11.2012	Scholarship of the German Academic Exchange Service (DAAD);	56 040€
12.2010-11.2011	Scholarship of the German Academic Exchange Service (DAAD);	51 336€

Awards and honours

2020	Best Paper: 18th Int. Conf. on Advances in Mobile Computing and Multimedia (MoMM)
2020	Best WiP Paper: 8th Annual IEEE Int. Conf. on Pervasive Comp. and Commun. (PerCom)
2017	Habilitation at TU Braunschweig, Germany
2013	PostDoc grant of the DAAD for a research project in the frame of the programme 'Rückgewinnung Deutscher Wissenschaftler aus dem Ausland'.
2011	Best Paper: '7th IEEE International Conference on Intelligent Environments (IE)'
2011	Postdoctoral scholarship of the German Academic Exchange Service (DAAD) for a researcher position at the National Institute of Informatics, Tokyo, Japan.
2010	Postdoctoral scholarship of the German Academic Exchange Service (DAAD) for a researcher position at the National Institute of Informatics, Tokyo, Japan.
2009	VDI prize of the VDI-Nordhessen for an outstanding dissertation in the year 2008 (1st prize)
2008	Dissertation with honours in computer science (summa cum laude)

Positions of trust (selection)

General chair	8th IEEE International Conference on Smart Computing (SMARTCOMP 2022); 7th International Conference on Mobile Computing, Applications and Services (MobiCase 2015)
TPC chair	International Conference on Mobile and Ubiquitous Systems (MobiQuitous) 2021; International Conference on Mobile and Ubiquitous Systems (MobiQuitous) 2016;
Demo chair	International Conference on Networked Systems (NetSys) 2017;
Workshops chair	19th Int. Conf. on Pervasive Computing and Comm. (PerCom) 2021, International Conference on Conference on Networked Systems (NetSys) 2017, Int. Conf. on Mobile and Ubiquitous Systems: Computing, Netw. and Services (MobiQuitous 2014);
Guest Editor	Springer PUC Theme Issue: Security and trust in context-aware systems, Special section in IEEE Access (2017): Emergent Topics for Mobile and Ubiquitous Systems in Smartphone, IoT, and Cloud Computing Era, Springer Mobile Networks and Applications, special issue: Mobile and Ubiquitous Systems;
TPC (selection)	IEEE PerCom 2016-2021; Netsys 2017-2021; IEEE ICDCS 2020; MSN 2020 (track chair)
Editorial board	Proc. of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT); Elsevier Journal on Computer Communications (ComCom); International Journal of peer-to-peer networks (IJP2P)

Supervision experience (PostDoc, PhD, Intern)

J. Ma (Aalto, PhD/main supervisor/09.2020-); S. Zuo (Aalto, PhD/main/11.2019-); D. Salami (Aalto, PhD/main supervisor/10.2019-); A. Naas (Aalto, PhD/main/06.2019-); S. Palipana (Aalto, PostDoc/main/03.2019-); R. Findling (Aalto, PostDoc/ main/11.2017-); L. Nguyen (Aalto, PhD/main/01.2016-); M. Raja (Aalto, PhD/main/12.2015-); R. Findling (JKU Linz, PhD/secondary/2017); A. Jahn (Kassel U. PhD/secondary/2017); D. Schuermann (TU Braunschweig PhD/secondary/03.2012-01.2018); S. Shi (NII Tokyo PhD/secondary/03.2011-04.2017); S. Hartung (Goettingen U. PhD/secondary/2015); B. Banitalebi (Karlsruhe Inst. of Techn. PhD/secondary/06.2010-04.2014); L. Nguyen (NII post-graduate intern/main/2011); M. Hock (NII post-graduate intern/main/2012); S. Roettgers (NII post-graduate intern/main/2012); S. Dechand (NII post-graduate intern/main/2012); A. Huynh (NII post-graduate intern/main/2013); F. Büsching (NII doctoral intern/main/2013); O. Streibel (NII doctoral intern/main/2013); M. Nieva (TU Braunschweig undergraduate intern/secondary/2016); A. Bruesch (Aalto post-graduate intern/main/2016)

Member on dissertation and tenure evaluation committees

10.2021	Yu Xiao (tenure evaluation committee) (Aalto University)
08.2021	Ahmed Abdelmonem Abdelgawwad (University of Agder)
09.2020	Muneeba Raja (Aalto University)
09.2020	Le Ngu Nguyen (Aalto University)
01.2018	Dominik Schuermann (TU Braunschweig);
11.2017	Andreas Jahn (Kassel University);
10.2017	Rainhard Findling (JKU Linz);
07.2016	Shuyu Shi (NII, Tokyo);
12.2015	Salke Hartung (Goettingen University)

Administrative responsibilities at higher education institutions

2019–	Responsible professor of the UNITE! international joint MSc programme Communication Engineering and Data Science
2017–	Responsible professor of the Aalto ELEC English BSC programme Digital Systems and Design

Member on international peer review committees for funding applications

2021	SNSF (Swiss National Science Foundation) as an international Expert reviewer
2020–	NCSTE (National Centre of Science and Technology Evaluation) as international Expert reviewer
2013–	DAAD (German Academic Exchange Service) in the frame of the FIT Worldwide programme

Experience as referee for scientific or scholarly journals

ACM IMWUT/UbiComp (2012–), IEEE PerCom (2014–), IEEE Computer (2016–), IEEE Transactions on Vehicular Technology (2017–), IEEE Transactions on Mobile Computing (2014–), IEEE VTC (2012–), IEEE Internet of Things Journal (2017–), IEEE Journal on selected topics in signal processing (2017), Elsevier Pervasive and Mobile Computing (2017–), IEEE Transactions on Emerging Topics in Computing (2016–), ...

Invited International Keynote lectures

10.2021	4th International Conference on Intelligent Technologies and Applications (INTAP'2021);
03.2018	Information Energy Conference, Amsterdam;
09.2015	Workshop on Collective Adaptation in Very Large Scale UbiComp: Towards a Superorganism of Wearables (UbiComp 2015 Adjunct)